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## NOTICE OF ALLOWANCE AND FEE(S) DUE

20985 7590 08/31/2009

FISH & RICHARDSON, PC P.O. BOX 1022

MINNEAPOLIS, MN 55440-1022

EXAMINER MIRZA, ADNAN M

ART UNIT PAPER NUMBER

DATE MAILED: 08/31/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNIEY DOCKET NO.
 CONTRIMATION NO.

 10840.067
 05/05/2004
 Cary A. Jardin
 10559/255002/P890+C
 6651

TITLE OF INVENTION: SPEED SENSITIVE CONTENT DELIVERY IN A CLIENT-SERVER NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (	a) specifying a new o	orres	pondence address;	and/or	(b) indicating a sepa	rate "FEE ADDI	RESS" for
CURRENT CORRESPOND		Note Fee(: pape have	: A certificate of s) Transmittal. Th rs. Each additiona its own certificate	mailing is certif I paper of mai	can only be used for icate cannot be used for such as an assignme ling or transmission.	r domestic mailir or any other accor nt or formal draw	igs of the mpanying ing, must		
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								(Depos	sitor's name)
									(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATIO	N NO.
10/840,067 TITLE OF INVENTION	05/05/2004 I: SPEED SENSITIVE C	CONTENT DELIVERY I	Cary A. Jardin N A CLIENT-SERVE	R NI	ETWORK	1055	9/255002/P8904C	6651	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE D	UE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	11/30/20	)09
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
MIRZA, A	ADNAN M	2445	709-223000	_					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	condence address (or Cha B/122) attached. lication (or "Fee Address 322 or more recent) attach LND RESIDENCE DAT/ less an assignce is ident th in 37 CFR 3.11. Comp	inge of Correspondence		nativ single or a attor II be p or typ he pa g an a	ely, elirm (having as a gent) and the namely or agents. If printed.  e) ttent. If an assignassignment.	memb es of u no nam	er a 2	ocument has been	ı filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	۵	Individual 🗖 Co	orporati	on or other private gro	oup entity 🗖 Go	vernment
4a. The following fee(s)  Issue Fee Publication Fee () Advance Order -  5. Change in Entity Sta	No small entity discount p	permitted)	b. Payment of Fee(s): (     A check is enclos     Payment by credi     The Director is he overpayment, to I	ed. t care	i. Form PTO-2038	is atta	ched. required fee(s), any de		any is form).
a. Applicant claim	is SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no	long	ger claiming SMA	LL EN	TITY status. See 37 Cl	R 1.27(g)(2).	
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte tes Patent and Trademark	d from anyone other the	an th	ne applicant; a regi	stered a	ttorney or agent; or th	e assignee or othe	r party in
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Typed or printed name					Registration N	ło			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C titality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC 313-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain  1.14. This collection i depending upon the e Chief Information O COMPLETED FORM	or re s esti indivi ffice S TC	etain a benefit by t imated to take 12 idual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, includir s on the amount of tin ark Office, U.S. Dep O TO: Commissioner	by the USPTO to g gathering, prepa ne you require to artment of Common for Patents, P.O. I	process) aring, and complete erce, P.O. Box 1450,

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## UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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DATE MAILED: 08/31/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/840,067	05/05/2004	Cary A. Jardin	10559/255002/P8904C	6651
20985 7.	590 08/31/2009		EXAM	IINER
FISH & RICHARDSON, PC		MIRZA, A	IDNAN M	
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2445	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 155 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 155 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)			
10/840,067	JARDIN ET AL.			
Examiner	Art Unit			
ADNAN MIRZA	2445			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 05/06/2009.
- The allowed claim(s) is/are 1-3,5-15 and 17-21.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  $\square$  All b) ☐ Some\* c) ☐ None of the:
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_
    - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other .

NIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445

1	EXAMINER'S AMENDMENT
2	
3	An Examiner's Amendment to the record appears below. Should the changes
4	and/or additions be unacceptable to applicants, an amendment may be filed as
5	provided by 37 CFR 1.312. To ensure consideration of such an amendment, it
6	must be submitted no later than the payment of the issue fee.
7	
8	Authorization for this Examiner's Amendment was given in a telephone
9	interview with Mr. Shun Yao on 08/05/09.
10	
10	
11	Please amend claims 1, 5, 6 and 11, cancel claims 4 & 16 and add new
12	claims 17-21.
13	
14	Listing of Claims
15	
16	(Currently Amended) A method of enhancing data delivery
17	comprising:
18	sending a first packet from a client interface to a remote terminal at
19	a first time;
20	receiving at the client interface a second packet from the remote
21	terminal at a second time;
22	determining a response time of the remote terminal at the client
23	interface based on a time period between the first time and the second
24	time;
25	using said response time to determine information related to a

26	connection speed between the remote terminal and the client interface;
27	receiving a request, from the remote terminal, for a content version
28	$\underline{\text{included in }providing}\text{-a plurality of different content versions, }\underline{\text{wherein}}$ each
29	having of the different content versions has a different amount of
30	information, each content version being and is optimized for a specific
31	connection speed;
32	upon determining that the requested content version is too large in
33	size for the remote terminal to provide based on said determined
34	connection speed, automatically selecting a content version, that is
35	different from a requested content version, from said plurality of content
36	versions; and
37	providing the remote terminal with the selected content version.
38	
39	4. (Cancelled).
40	
41	5. (Currently Amended) The method of claim 1, further comprising
42	selecting the content version in response to a request for a content
43	version from the remote terminal, wherein the selected content version is
44	different from smaller in size than a requested content version.
45	
46	6. (Currently Amended) A method of connecting a remote terminal to
47	a server comprising:
48	determining a response time of a remote terminal at a client
49	interface based on a time period elapsing between a first packet being
50	sent from the client interface to the remote terminal and a second packet
51	being received from the remote terminal at the client interface;
52	using said response time to determine a connection speed between
53	the remote terminal and the client interface;

receiving a request from the remote terminal at the client interface

54 55

for a content version;

66	identifying a plurality of content versions at a server coupled to the
7	client interface, each content version having a different amount of
8	information at the server, each content version being optimized for a
59	specific connection speed;
50	determining, based on the connection speed between the remote
51	terminal and the client interface, that the requested content version is too
52	large in size for the remote terminal to provide;
53	based on said connection speed, automatically selecting an
54	alternative content version of the plurality of content versions, the
55	alternative content version smaller in size than the requested content
66	version; and
57	providing the selected alternative content version to the remote
58	terminal in response to the request.
59	
70	11. (Currently Amended) An apparatus, including instructions residing
71	on a machine-readable storage medium, for use in a machine-based
72	system to handle a plurality of instructions, the instructions causing the
73	machine system to:
74	send a first packet from a client interface to the remote terminal;
75	receive at the client interface a second packet from the remote
76	terminal;
77	determine a response time of the remote terminal at the client
78	interface based on a time period between the first packet being sent and
79	the second packet being received;
30	use said response time to determine a connection speed between
31	the remote terminal and the client interface;

determine, based on the determined connection speed, that the requested content version is too large in size for the remote terminal to

receive a request for a content version from the remote terminal at

82

83 84

85

the client interface;

86	provide;
87	access a plurality of content versions located at a server, each
88	content version having a different amount of content, and each content
89	version being optimized for a specific connection speed;
90	automatically select an alternative content version of the plurality of
91	content versions that the remote terminal can provide, based on the
92	determined connection speed; and
93	communicate the selected version from the server to the remote
94	terminal.
95	
96	16. (Cancelled).
97	
98	17. (New) An apparatus, including instructions residing on a machine-
99	readable storage medium, for use in a machine-based system to handle a
100	plurality of instructions, the instructions causing the machine system to
101	perform operations comprising:
102	sending a first packet from a client interface to a remote terminal at
103	a first time;
104	receiving at the client interface a second packet from the remote
105	terminal at a second time;
106	determining a response time of the remote terminal at the client
107	interface based on a time period between the first time and the second
108	time;
109	using said response time to determine information related to a
110	connection speed between the remote terminal and the client interface;
111	receiving a request, from the remote terminal, for a content version
112	included in a plurality of different content versions, wherein each of the
113	different content versions has a different amount of information and is
114	optimized for a specific connection speed;
115	upon determining that the requested content version is too large in

16	size for the remote terminal to provide based on said determined	
17	connection speed, automatically selecting a content version, that is	
18	different from a requested content version, from said plurality of content	nt
19	versions; and	
20	providing the remote terminal with the selected content version.	
21		
22	18. (New) The apparatus of claim 17, the operations further comprise	sing
23	determining a data flow rate from the determined response time of the	
24	remote terminal, and wherein determining the response time comprise	s:
25	starting a timer at the first time when the client interface sends	he
26	first packet to the remote terminal; and	
27	stopping the timer at the second time when the client interface	
28	receives the second acknowledgement packet from the remote termin	al.
29		
30	19. (New) The apparatus of claim 17, the operations further compri	sing
31	determining network congestion based on the determined response tire	ne.
32	20. (New) The apparatus of claim 17, the operations further compri	sing
33	determining the response time based on a timing of a handshake between	/een
34	the remote terminal and the client interface.	
35		
36	21. (New) The apparatus of claim 17, wherein the selected content	
37	version is smaller in size than the requested content version.	
38		
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41		
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43		

144	Reasons for Allowance
145	
146	1. Claims 1-3, 5-15, 17-21 will be allowed.
147	2. The following is an examiner's statement of reasons for allowance.
148	The prior art references most closely resembling the applicants claimed
149	invention is TSO (U.S. 6,421,733) and Smith et al. (U.S. 7,139,844).
150	
151	First, Tso disclosed a system for dynamically transcoding data transmitted
152	between computers is implemented in an apparatus for use in transmitting data
153	between a network server and a network client over communication link.
154	However Tso failed to disclose, "receiving a request, from the remote
155	terminal, for a content version included in a plurality of different content
156	versions, wherein each of the different content versions has a different
157	amount of information, and is optimized for a specific connection speed;
158	upon determining that the requested content version is too large in size for
159	the remote terminal to provide based on said determined connection
160	speed, automatically selecting a content version, that is different from a
161	requested content version, from said plurality of content versions". These $$
162	limitations are incorporated into all of the independent claims (claims $1,\ 6,\ 11,$
163	17).
164	
165	Second Smith disclosed a system for delivering data objects containing data
166	subject to periodic updates to a plurality of clients is disclosed and which is

167 configured to at least one input data stream which carries a specific type of data objects, such as objects related to financial product offerings and also establish a 168 169 communication session with various clients. However Smith failed to disclose 170 "receiving a request, from the remote terminal, for a content version 171 included in a plurality of different content versions, wherein each of the 172 different content versions has a different amount of information, and is 173 optimized for specific connection speed: 174 upon determining that the requested content version is too large in size for the remote terminal to provide based on said determined connection 175 176 speed, automatically selecting a content version, that is different from a 177 requested content version, from said plurality of content versions". These 178 limitations are incorporated into all of the independent claims (claims 1, 6, 11, 179 17).

Application/Control Number: 10/840,067

Art Unit: 2445

In summary, the Examiner submits that Tso and Smith taught all the limitations of independent claims in combination with other elements. Specifically prior art does not teach "receiving a request, from the remote terminal, for a content version included in a plurality of different content versions, wherein each of the different content versions has a different amount of information, and is optimized for a specific connection speed; upon determining that the requested content version is too large in size for the remote terminal to provide based on said determined connection speed, automatically selecting a content version, that is different from a requested content version, from said plurality of content versions"; therefore, claims 1-3, 5-15, 17-21 have been deemed allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adnan Mirza whose telephone number is (571) 272-3885. The examiner can normally be reached on Monday through Friday from 9:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Vivek Srivastava can be reached on (571)-272-7304. The fax phone numbers for the organization where this application or proceeding is assigned are listed herein below. Application/Control Number: 10/840,067 Page 3

Art Unit: 2445

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)746-7239.

Customer service number is (866) 217-9197.

/VIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445